SOUTHWEST DIVISION NAVAL FACILITIES ENGINEERING COMMAND CODE 06CC.LMH File: etjp5sampling2

Transmittal

Date: 17 February 2004

From: Lynn Marie Hornecker

To: John Broderick

Regional Water Quality Control Board

Santa Ana Region

3737 Main Street, Suite 500 Riverside, CA 92501-3348

Subj: Proposed Sampling Locations along Former Jet Fuel Pipeline (MSC JP5)

Former Marine Corps Air Station, El Toro

The purpose of this transmittal is to identify fifteen (15) locations for the collection of soil samples from shallow borings along the former jet fuel pipelines (known as location of concern MSC JP5) at the Former Marine Corps Air Station, El Toro. The proposed investigation will provide information at several locations where releases may have occurred. The JP5 pipelines conveyed fuel from the Former Tank Farm 555 to the fuel storage and refueling areas near the former airfield. The JP5 pipelines were taken out of service in approximately December 1998.

Exhibit 1 is attached to this transmittal to show the proposed sampling locations along the fuel pipeline. Exhibit 2 shows the vicinity of the former truck fueling area with the groundwater gradient based upon information collected during the remedial investigations of nearby Installation Restoration Program (IRP) Site 3 (Original Landfill) and IRP Site 4 (Ferrocene Spill Area). Exhibit 3 includes excerpts from a historical groundwater monitoring report.

A more detailed planning document will be submitted to identify sample depths at each boring, sampling procedures, and analytical testing methods following the receipt of concurrence or incorporation of comments on this transmittal from your office. Existing information from investigations of nearby locations of concern will be utilized to the extent practicable. A formal transmittal letter may follow.

Proposed Sampling Locations

The original aircraft refueling stations on the apron near Building 372 (Stations 575, 576, and 577), refueling stations 886 and 887 in the southeastern section of the facility, three valve boxes where the primary fuel pipeline changed direction, and the former truck fueling area were selected for this sampling activity. The Summary Table provides a description of each boring location and information pertaining to nearby features.

Proposed Borings 1, 2, 3, 4, and 15 are located at valve boxes or at areas where the pipeline changes direction.

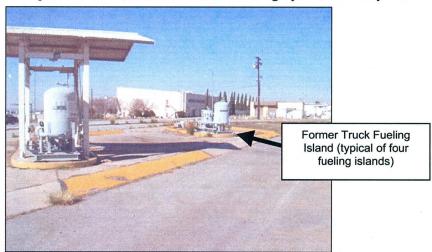
Benzene has been detected in groundwater samples collected from the cluster well, 01_BGMW01A/B/C/D/E, located approximately northwest of the former truck fueling area. The former truck fueling area is located southwest of Former Tank Farm 5, southwest of IRP Site 3 (the Original Landfill), and southeast of IRP Site 4 (the Ferrocene Spill Area). Benzene has also been detected in groundwater samples collected from IRP Site 4 monitoring wells — 04_UGMW63 (northeast of Former Tank Farm 5) and 04_DBMW40 (north-northwest of the former truck fueling area). The October 1997 sampling round identified benzene at 2 micrograms per liter (ug/L) in 04_DBMW40; the November 1996 sampling round identified benzene at 7 ug/L in 04_UGMW63; and the March 1997 sampling round identified benzene at 90 ug/L in 18_BGMW01E ("Groundwater Monitoring Report, October 1997 Sampling Round, Marine Corps Air Station, El Toro, California" (CDM Federal Programs Corporation March 1998).

The fueling stations and a dry well near Building 363 in the former truck fueling facility are possible sources of the benzene in groundwater. The proposed borings B5, B6, B7, B8, and B9 are located at the former pump stations and at the former dry well. Photographs 1 and 2 show the former dry well and fuel islands at the former truck fueling area.

Photograph 1. Dry Well at Former JP5 Truck Fueling Area Looking Approximately Northwest. Former Marine Corps Air Station, El Toro. Date of Photograph: 23 January 2004



Photograph 2. Former JP5 Truck Fueling Islands. Former Marine Corps Air Station, El Toro. Date of Photograph: 23 January 2004



Limited soil sampling has been conducted within the truck fueling area. UST T-6, a 2,000-gallon fuel recovery tank, was removed from the southeastern side of the truck fueling area in December 1996, and the tank site was closed by the Orange County Health Care Agency (OCHCA) in 1997. All tanks within the nearby Former Tank Farm 5 facility (USTs 208, 209, 210, 211, 212, 213, 214, and 215) were removed in 1996, confirmation soil sampling was conducted, and the tank sites were closed by OCHCA. Additionally the JP5 storage tanks, UST 658A and UST 658B, at the nearby former engine test facility (Building 658, northwest of Former Tank Farm 5) were removed and the tank sites were closed by OCHCA in 1998.

Proposed Borings 10, 11, and 12 are located adjacent to the former fueling stations 575, 576, and 577 in the vicinity of Building 372. Proposed Borings 13 and 14 are located adjacent to the former fueling stations, 886 and 887 in the vicinity of IRP Site 19 – the Aircraft Expeditionary Refueling (ACER) Site – in the southeastern section of the facility.

Soil samples will be collected from two depths from each shallow boring. The depth of the base of the fuel pipeline at the boring location and the proximity of existing structures and underground utilities will be considered in determining the sample depths. Samples will be analyzed for total petroleum hydrocarbons and for volatile organic compounds. The depth of each shallow boring shall be approximately 20 feet.

Please do not hesitate to contact me at (619) 532-0783 if you have questions pertaining to this transmittal.

Attachments

Exhibit 1 Proposed Sampling Locations

Exhibit 2 Former Truck Fueling Area, Former Tank Farm 5, and IRP Site 3

Exhibit 3 Excerpts from Groundwater Monitoring Report (CDM 1998)

Summary Table

Boring Identifier	Location	Comments
Northeastern Section of the		
Facility TD5D1	Adiacont to Valva Day Aman Imina	Dinglings IDS 1 and IDS 2
JP5B1	Adjacent to Valve Box 4, near Irvine	Pipelines JP5-1 and JP5-2
	Boulevard and Quarry Road	change direction at the valve
	(approximately south-southwest of	box (approximate angle of 135
	IRP Site 17)	degrees). Nearest downgradient
		well, 03_BGMW26, is located
		more than 1,000 feet northwest
		of valve box, and the valve box
		is near the southwestern edge of
IDEDO	Adianasta Valas Dan Lucas Taula	IRP Site 17.
JP5B2	Adjacent to Valve Box 1, near Tank Farm 5	JP5-2 changes direction near
	rami 5	Valve Box 1 (approximate
	·	angle of 135 degrees). JP5-1 "T" connection at valve box.
		Downgradient well,
		04 DBMW40, is several
	·	hundred feet away.
JP5B3	Adjacent to North Marine Way and	JP5-2 changes direction, 90-
J1 3B3	Tank Farm 5	degree angle at Tank Farm 5
		(benzene has been detected in
		downgradient IRP Site 4 wells).
		Downgradient well,
	·	04 DBMW40, is several
		hundred feet away
JP5B4	Adjacent to southeastern side of Tank	JP5-1 changes direction near
1	Farm 5	this location.
JP5B5	Adjacent to dry well within Truck	Dry well has gravel base
11020	Fueling Area, near Building 363,	(benzene has been detected in
	southwest of Tank Farm 5	the downgradient cluster well,
		18 BGMW01)
JP5B6	At or near truck fueling island,	Benzene has been detected in
	southwest of Building 363	the downgradient cluster well,
		18 BGMW01
JP5B7	At or near truck fueling island,	66
	southwest of Building 363	
JP5B8	At or near truck fueling island,	66
	southwest of Building 363	
JP5B9	At or near truck fueling island,	66
	southwest of Building 363	•

Summary Table

Boring Identifier	Location	Comments
JP5B10	MSC JP5 Station 575	Associated with MSC JP5-8,
	(Fueling station was constructed in	Northwest of Building 372
	1956 and has been demolished.)	(nearest downgradient wells are
		hundreds of feet away near
		MSC JP5 Station 574)
JР5В11	MSC JP5 Station 576	Associated with MSC JP5-8,
	(Fueling station was constructed in	Southeast of Building 372
	1956 and has been demolished.)	(nearest downgradient wells are
		several hundred feet away at the
) (GG TD G G)	Tank 398 site)
JP5B12	MSC JP5 Station 577	Associated with MSC JP5-8,
	(Fueling station was constructed in	Southeast of Building 372
	1956 and has been demolished.)	(nearest downgradient wells are
		several hundred feet away at the
TD 5701 5	**1 5	Tank 398 site)
JP5B15	Valve Box 2	JP5-1 changes direction at
•		Valve Box 2, located southeast
Southeastern Section of the		of MSC JP5 Station 577
Facility		
JP5B13	MSC JP5 Station 886	Near the Aircraft Expeditionary
	(Fueling station was constructed in	Refueling (ACER) facility (IRP
	1990.)	Site 19), near MSC JP5-3 and
		associated with MSC JP5-5,
		Segment 7
JP5B14	MSC JP5 Station 887	Near the Aircraft Expeditionary
	(Fueling station was constructed in	Refueling (ACER) facility (IRP
	1990.)	Site 19), near MSC JP5-3 and
	·	associated with MSC JP5-5,
<u> </u>		Segment 7

CF:

Andy Piszkin (BRAC Environmental Coordinator)
Project File (Former MCAS El Toro)

SENSITIVE RECORD

PORTIONS OF THIS RECORD ARE CONSIDERED SENSITIVE AND ARE NOT AVAILABLE FOR PUBLIC VIEWING

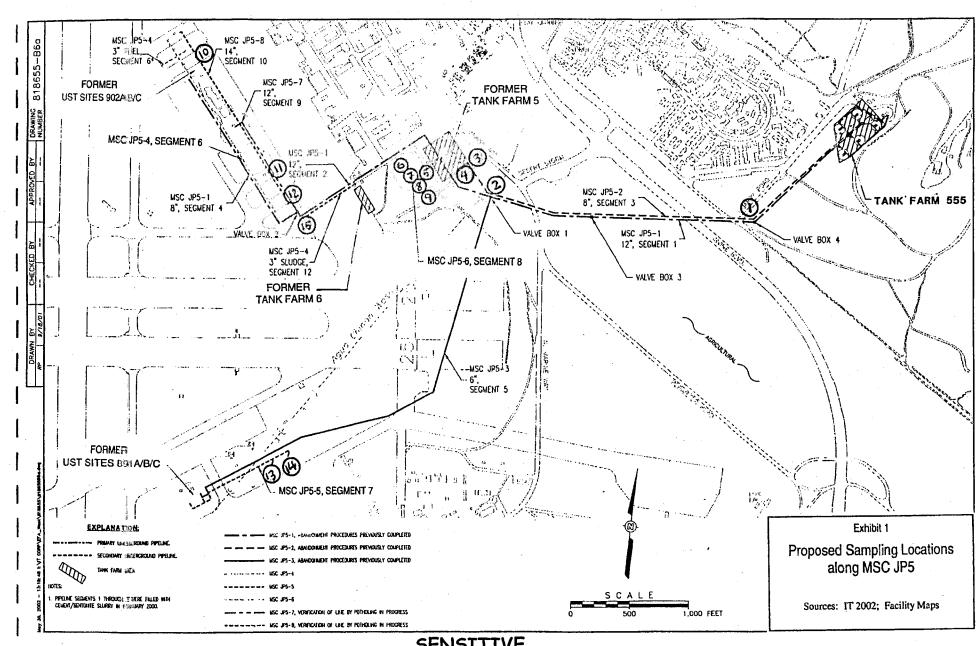
EXHIBITS 1 AND 2

FOR ADDITIONAL INFORMATION, CONTACT:

DIANE C. SILVA, RECORDS MANAGER
NAVAL FACILITIES ENGINEERING COMMAND, SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

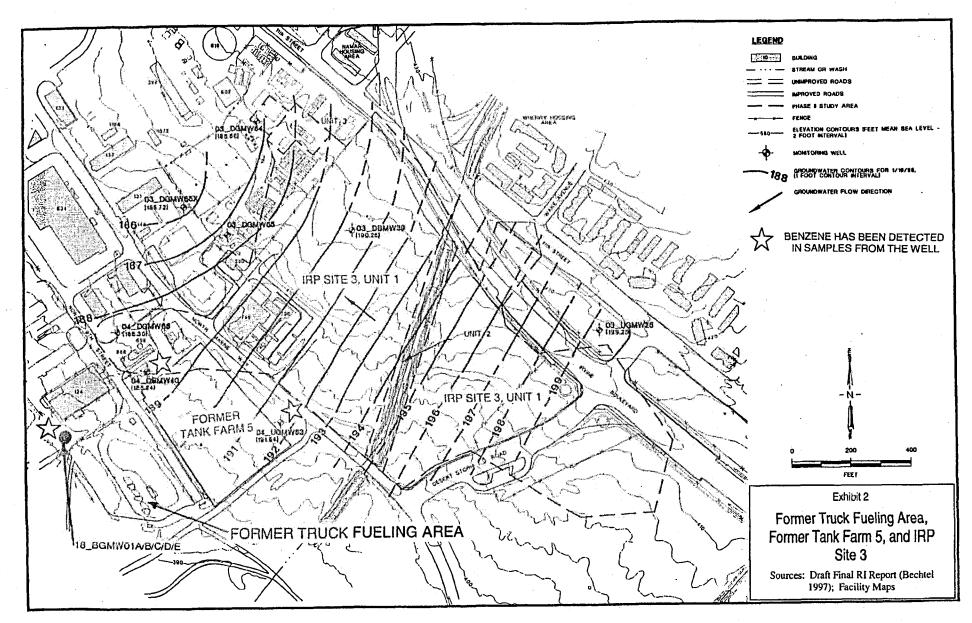
TELEPHONE: (619) 556-1280 E-MAIL: diane.silva@navy.mil

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Note: Annotations for the information near the former truck fueling area were made by the writer of the transmittal dated 17 February 2004.

Exhibit 3

FINAL

GROUNDWATER MONITORING REPORT OCTOBER 1997 SAMPLING ROUND

GROUNDWATER MONITORING PROGRAM FOR MARINE CORPS AIR STATION EL TORO EL TORO, CALIFORNIA

EXCERPTS

Contract No. N68711-96-D-2029 Delivery Order 005

Prepared for:

SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 Pacific Highway
San Diego, California 92132

Prepared by:

CDM FEDERAL PROGRAMS CORPORATION 3760 Convoy Street, Suite 210 San Diego, California 92111

March 1998

			PRIMARY VOCS DETECTED AND REGULATORY STANDARDS "All Results in Micrograms per Liter (ug/L)											OTHER VOC: DET	OTHER VOC: DETECTED		
Station ID	Base Screen Depth (FLBGS)	Sample Date	TCE 5.0	PCE.	CCI.	1,1-DCE 60	1.2-DCE (lotal)	Chloroform 100.0	Chloro- methane	Benzene 1 0	Toluene 100 0	Ethyl- benzene 680 0	Xylenes (total) 1750.0	Freon-113	Compound	Conce	
	.i								2011	1.0 U	1011		0.8 3	7.0 JN			
03_DGMW65X	270	18-Jan-93	100	100	1.0.U 10.U	1.0;U	100	10	20 U 20 U	100	1.0 U	100	1.0 U	7.0 314		:	
	ļ	7-Jul-93 26-Feb-96	1.0 U 1.0 U	1.0 U	1.0 U	100	100	10 U	10 0 U	1.0.0	100	10.0	1.0 U		[
	ļ		1.0 0	1.0 U	100	100	1.0 0	100	100 U	1.0,0	100	1.0.0	100	10.0 U			
		11-Nov-96 4-Mar-97	1.0.0	100	100	1.0 U	1.0 U	100	100.0	1.010	100	100	1.0 U	10.0.0	METHYLENE CHLORIDE	1.0	
		30-Jun-97	1.0.0	10.0	100	100	1.0 U	10.0	10.0:0	1.0.0	טוסו	10.0	100	10.0 U	me initelle cheoribe	1.0	
		15-Oct-97	1.0 U	1.0 U	1.0.0	1.0 U	10 U	051	10.0.0	1.0 U	10.0	100	1.0 U	10.0 U	METHYLENE CHLORIDE	0.6	
		13-00-91	1.0										1.0	10.0	me inteene or combe	- 0.0	
03_UGMW26	: 270	10-Jan-92	10:0	10:0	1.0 U	1.0 U	10 U	1.0 ປ	2.0 U	1.0 U	1.0 U	1.0,0	1.0 U				
		23-Jun-93	100	100	100	100	1.0 U	1.0 U	2.0 U	1.0 U	1.0,0	1.0 U	1.0 U	1			
	Ï	27-Feb-96	0.3 J	0.6.J	10'0	10.0	1.0 U	1.00	10.0 U	1.0 U	100	1.0;0	1.0 U	10.0 U			
		14-Nov-96	1.0.	2.0	1.0 U	1.0 U	10.0	1.0 U	10 0'U	100	10 U	1.0 U	1.0 U	10 0 U			
		14-Nov-96	1.0,	2.0	1.0 U	1.0 U	100	100	10 O U	10 U	100	1.0 0	1.0 U	10.0 U		1	
	£	6-Mar-97	1.0 J	20	100	100	100	1.0 U	10 O:U	1.0'0	1.00	100	1.0.0	100.0	!		
		1-Jul-97	0.8 J	10	1.0 U	100	1.0 U	1.0 U	10.0 U	1.0 υ	10,0	10,0	1.0 U	10.0 U			
	1	17-0a-97	091	2.0	1.0 U	1.0 U	1.0 0	100	10.0 U	1.0 U	1.0.0	100	100	10.0 U	METHYLENE CHLORIDE	0.3	
04_DBMW40	260	12-Mar-92	1.0,0	10:0	1.0.0	100	1.0 :	1.0 U	2.0 U	1.0 U	1.0 Ü	1.0 U	10 0	 	2-HEXANONE	7.0	
	1	24-Jun-93	10:0	່ 10 ປ	1.0 U	1.0 U	1.0.0	1.0 บ	2.0 U	4.0	1.0 U	1.00	3.0	1		1	
	1 " "	26-Feb-96	1.0 υ	100	1.0 U	1.0 ูป	1.0 U	100	1000	1.0 U	10.0	1.0 U	100	100 u			
	1	12-Nov-96	1.0 ປ	10 U	1.0 U	1.0:0	1.0 U	1.0 U	10.0 U	40.0	10,0	100	7.0	10 0 U		1	
		5-Mar-97	1.0 U	10.0	ີ 10,U	10.0	1.0 U	1.0.0	10.0 _: U	10.0	1.0 U	100	1.0 🙂	1000	METHALERE CHLORIDE	1,0	
	1	30-Jun-97	1.0 tj	100	1.0 0	10 U	10 U	1.0 U	10 0 U	14.0	1.0 U	1.0 U	3.0	10,0 0	BROWDME DIAME	9.0	
		16-Oct-97	1.0 ()	100	100	1.0 U	1.0 U	1.0 U	10.0 U	2.0	10:0	1.0 U	100	1000	METHOLENE CHECHOE	06	
	1-														131,5 0V 1 1		
04_DGMW66	290	14-Jan-93	100	10:0	10 11	10;0	1.0 U	1.0,0	2.0 U	1.0¦U	1.0 U	1.0 U	1.0				
		24-Jun-93	1.0 🕡	1.0.0	1.0 0	100	1.0 U	100	20 U	10,0	1.0.0	100	100	1			
	1	26-Fab-95	1.0 U	10.0	100	1.0 U	₹ 1.0 U	1.0 υ	10.0.0	10 U	100	100	1.0 U	10.0 U		i	
4. www.m.m.		12-Nov-96	1.0 u	100	100	1.0 U	10 U	1.0:0	1000	0.7 J	100	1.0 U	1.0	roon			
		4-Mar-97	1.0 1	100	100	1.0.U	1.0 U	100	10.0 U	1.0 U	100	10 U	1.0	1000		;	
	4	1-Jul-97	1.0 :	100	100	1.0 U	1.0 U	100	10.0 U	1.0 U	1.0:0	1.0 U	1.0 0	10.0 U		!	
	· • · · · · · · · · · · · · · · · · · ·	15-Oct-97	1.0 U	1.0 0	, tau	1.0 0	1.0 U	1.0 U	10.0 U	1.0 U	1.0:0	1.0 บ	1.0 ບ	13.0.0			
04_UGMW63	275	24-Nov-92	1.0 1.	10 ប	100	1.0 U	1.0:0	1.0.0	20 U	3.0	1.0 U	1.0.0	1.0 U	 	METHYLENE CHLORIDE	2.0	
 2	1	25-Jun-93	1.0 13	10.0	100	100	1.0 U	1.010	2.0 U	4.0	100	1.0.0	1.0.0	- · · · · i	METHYLENE CHLORIDE	0.6	
	1	30-Jan-96	10 11	10.0	100	100	1.0 ປ	100	10 O U	3.0	100	1.0.0	100	10.0 U		:	
	1	14-Nov-96	1.0 u	1.0:0	10.0	1.0 U	1.0.0	1.0 U	10.0 U	7.0	1.0 0	1.0 υ	1.0 U	10.0 U			
		14-Nov-96	1.0 ()	100	10.U	1.0 Ü	100	1.0 U	10.0 U	7.70	1.0 0	1.0 U	1.0.U	10 0 U			
	í					1:			1.5	The lates of the particular		. ::-;==		1]	4	

Table 4-1: SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS MCAS El Toro Groundwater Monitoring Program

				PRII	ARY VOCS	DETECTED	AND REGUL	ATORY STA	NDARDS -	All Results is	n Microgram	s per Liter (ug/L)		OTHER VOCS DETE	CTED
Station ID	Base Screen Depth	Sample Date	TCE 5.0	PCE 50	CCI. 0 5	1,1-DCE 6.0	1.2-DCE (total)	Chloraform 100 D	Chloro- methane	Benzene 10	Toluene	Ethyl- benzene 680 0	Xylenes (total) . 1750.0	Freon-113	Свяфочид	Conce
	446	14-Dec-92	10 υ	1 Ö U	1.0 U	1 O U	1.0.U	1.0 u	20 υ	1.0 U	05 j	1.0 U	1.0 U			
18_BGMW01B	416	22-Jun-93	1.0 U	1.0:0	1.0:U	100	1.0 U	10'0	2.0 U	100	100	10.0	1.0 U	1		* 1
		26-Jan-96	100	100	100	100	1.0 U	1.0.0	10.0 U	100	1.0 U	1.0.0	1.0 U	10.0 U		
	i ·	5-Nov-96	1.0 U	100	10 υ	100	1.0 U	1.0 0	10.0 U	1.0:0	1.0 U	100	100	1000	,	
		11-Mar-97	1.0 U	1.0 U	1.0.U	1.0 U	10.0	10 υ	10 D U	1.0 U	100	1.0 U	1.0 U	10.0 υ		
	350	13-Jul-92	1.0;U	1.0 U	1.0 U	1.0.0	10 U	10 0	2.0 U	1.0 U	1.0.0	1.0,U	100	ļ	1,2-DICHLOROPROPANE	10:
18_BGMW01C	. 330	16-Dec-92	100	1.0:0	10.0	100	10 u	1.00	20 U	1,0 0	20	100	1.0.0	:	1,2-DICHLOROPROPANE	1.0
		24-Jun-93	100	100	1.0 U	1.0 υ	10 U	10 U	2.0 U	1.0 U	10 U	100	1.0 U		1.2-DICHLOROPROPANE	1.0
	·	23-Jan-96	1.0 U	100	100	10,0	100	1.0,0	10 0 U	1.0 U	1.0.0	1.0.0	1.0 U	10.0 U)	
	. '	5-Nov-96	10 U	1.0 U	1.0 U	100	1.0 U	1.0,0	10.0 U	100	10,0	1.0 Ų	1.0,0	10.0 U	METHYLENE CHLORIDE	11.0
		11-Mar-97	1.0 υ	1.0;J	1.0,0	1.0 υ	100	1.0 U	10 0 U	10,0	10 ປ	1.0 U	1.0 U	10.0.0	1,2-DICHLOROPROPANE	0.8
	.														METHALINE CHLORIDE	LO
8 BGMW01D	262	8-Apr-92	1.0!0	1.0 U	10,υ	1.0 U	1.0;U	1.0,0	2.0,0	0.9(1	1.0 U	1.0 U	1,0	 		
		12-Sep-92	1.0 υ	1.0 U	100	1.0 U	10 0	1.0 U	2 D U	1.0,0	1.0 U	1.010	1.0 U		m in the second of the	
		23-Jan-96	1.0 U	1.0,0	1.0 0	1.0 U	100	1.0 U	10 0 U	10.0	1.0 U	1.0 U	2.0	10.0,0	*****	
	1	1-Nov-95	1.00	1.0 U	10 0	1.0 U	1.0:0	1 0:U	10.0 U	9.0	1.0 U	100	2.0	10.0 U		
	<u>.</u>	10-ktar-97	1:0:0	1.0 U	10.0	1.0 U	1.0	10,0	1000	75-18.0	1.0 U	100	1.0 U	10.0 U	METHYLENE CHLORDE	0.0
8_BGMW01E	225	1 27-Cittl 82	ายบ	1.0 U	1.0 U	100	1.0.0	1.0,U	091	100	1.0,0	1.0 U	1.0 U		MEDITALISE CHADRIDE	0.9
	i.	27-0ct 92		'					2.0 U	270.0 D	20		58.0	1 • 1		
	1	18-aun-93	100	1.0,0	1.0.0	1.0;0	100	10 U	2.0 U	240.0 D	0.8:J	1.0 U	17.0	امحد	ACHUNINE OROUGE	0.7
		5-Feb-30 1-Nov-3/3	100	1.0:U	1.0 U	1.0 U	1.0.U	1.0 U	10.0 U 10.0 U	40.0 110.0	10.U	1.0 U	1.0 U 20.0	10 0 U	Laren e e e	÷
		27-May 97	500	5.0 U	5.0 U	50 U	5 O U	50 U	50.0 U	90.0	50:0	150	5.0¦U	50.0 U	METHYLENE CHLORIDE	
		21-water	300	3.0.0	3.0.0	200	30,0	30,0	30.0	1,1,900	30.0	130	3.0	50.0	METATLENE CHLORIDE	60
8_BGMVV02A	482	6-∧;⊭-ÿ2	100	1.0 U	1.0 υ	1.0 U	1.0.0	10,0	2.0 U	100	1 0 U	1.0 U	1.0 U		ACETONE	51.0
	ļ 								<u>‡</u>						BROMODICHLOROMETHANE	11.0
والراوسية والمت		+ • •			1 1			ł - j- j					4.	ļ	BROMOFORM CHLORODIBROMOMETHANE	2.0
	ļ · · ·	21-Dec-92	1.0	0.5 J	1.0 U	1.0 U	1.0 U	7.0	2.0 υ	1.0 U	6.0	1.0 U	1.0		CARBON DISULFIDE	11 0 5.0
	l	6-Aug-93	663	10υ	1.0 U	1.0 U	1.0 U	1.0 U	2.0 0	1.0 U	1.0 U	1.0 U	1.0 0		CARBON DISULFIDE	3.0
		19-Jan 96	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 υ	1.0.υ	1.0.0	1.0 U	1.0 Ú	10.0 U	1	
		19-Nov-96	000	1.0 U	1.010	1 0 U	1.0 U	1.0 0	10.0 U	1.0 U	10:0	1.0 U	1.0 U	10.0 U	METHYLENE CHLORIDE	1.0
		13-Mai 97	100	10 U	100	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	10 U	100	1.0 U	10.0 U	METHYLENE CHLORIDE	1.0
a 50000000	270			400		4.0	1000	0.8								
8_BGMW02C	378	6-Nav-92	100	1.0 U	1.0 U	1.0 U	1.0 U	0.0.3	20 U	1.0.0	1.0:U	1.0.U	1.0 U		BROMODICHLOROMETHANE	0.5
	}	22-Dec 92	100	100	10.0	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	101	1.0 U	1.0 0		CHLORODIBROMOMETHANE	0.5
	ļ	6-Sep-93	ίου	1.0 U	100	1.0 U	1.0:0	1.0 0	2.0 U	1.0 U	1.00	1.0 U	1.0 U			
		18-Jan 96	าบบั	1.0 U	100	1.0 U	100	1.0 U	10.0 U	1.0 U	1.0 υ	100	1.0 U	100 u		:
	1	5-Nov-165	1.00	1.0 _: U	100	1.0 U	1.0,0	10 U	10.0 0	1.0 U	1.0 U	idu	1.0 U	1000	METHYLENE CHLORIDE	20
		11-latur-97	100	1.0,υ	1.0.0	10 υ	1.0 U	10 U	10 0 U	1.0 U	1.0 U	1.0 U	1.0,U	10.0 U		- 2
					1)		"	1				1 1		l .	1	

Table 4-2: RESULTS OF TOTAL PETROLEUM HYDROCARBON ANALYSES MCAS El Toro Groundwater Monitoring Program

•		onere e e e e e e e e e e e e e e e e e e		TPH Ar	nalyses			
Well No.	Screen interval	Sample Date	Gasoli FQL= 59		Diese PQL= 250		BTEX Compounds Detected	
03_DGMW84	245 - 255	12-Nov-85		NO		ND	nana	
		12-Nov-95		ND		ND	sone	
		4-1/10/-97		באי		ND	none	
	! !							
04_UGMW63	235 - 275	14-Nov-96		ND		NO	Benzene (7 ug/L)	
		14-Nov-96		מא		ND	Benzene (7 ug/L)	
CT COMMITS	125 - 165	21-Nov-98		NO		NO.		
C7_DGMVV70	1807.100	21:Nov-96	····	·			none	
				NO		ND	hone	
		20-Mar-97		ND		ND	, nana	
15_DGMW81	176 - 216	(>//an-97		ND		ND .	noris	
280,000,000		S-Mar-97		סא		ND		
							nane	
18_6GMW01A	1 456 - 486 1	5-Nov-58	70	-	390		Benzene (18 up/L), Éthylbenzene (1 u	
(D_DDWAACIU	-30-300	14-Mar-57	70	ND	330	<u> </u>		
		144.808.236		NU		ND	Benzeno (5 ug/L)	
18_8GMW01B	396 - 416	6-Nov-93		NO		סא	nang -	
10, 20,000							· cong	
18_8GMW01C	330 - 350	5-Nov-98		ND		ND	nons.	
18_8GMW01D	742 - 262	1-Nov-95	120	·		ND	Benzene (9 ug/L), Xylenes (2 ug/L)	

18_BGMW02A	402 - 482	15-Nav-95		МВ	- ;	ND	nane	
ļ ————————————————————————————————————		13-Mar-97		NO		ND	enon	
			***************************************		<u> </u>			
18_BGMV02E	198 - 233	1-Nov-98		NO.	İ	ND	none	
AND THE PROPERTY OF THE PROPER		27-Mar-97		140		NO	none	
	***************************************			-		<u> </u>		
18_BG!//V038	250 - 500	7-Nov-96		ND	į	ND	none	
*		21-Mar-97		NO	†	ND	none	
				†	l	ļ.,		
16_BGM/V03E	124 - 164	2-Nov-96		МО		NO	noris	
	1	15-Mai-97		нр	İ T	ND	nona	
		13-Mar-97	İ:	ND	j	ND	none	
	- 60							
18_BGMW05A	462 - 482	9-Jan-97		NO		מוי	none	
		27-Mar-97		ND		DN	nche	
18 BGMW05D	83 - 133	4-Dec-95		ND		ND	none	
			-\$	~	- 	-		